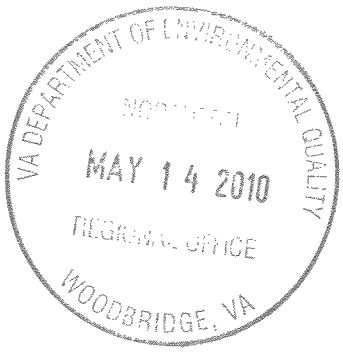
Dominion Resources Services, Inc.
5000 Dominion Boulevard, Glen Allen, VA 23060
Web Address: www.dom.com

Dominion®



May 10, 2010

Ms. Susan Mackert
Water Permit Writer Senior
Department of Environmental Quality
Northern Regional Office
13901 Crown Court
Woodbridge, VA 22193

RE: Gordonsville Power Station:
Request for Modification of VPDES Permit No. VA0087033

Dear Ms Mackert,

Enclosed are the following reports that present the results of studies undertaken by Dominion related to the Total Copper effluent limit on Outfall 001 at our Gordonsville Power Station:

1. Derivation of a Water Effects Ratio for Copper
2. Derivation of a Chemical Translator and Characterization of In-stream Hardness
3. Evaluation of the Biotic Ligand Model for Determining a Site-specific Copper Standard

The results of these studies demonstrate, using EPA and DEQ approved methods, that a total copper wasteload allocation of approximately 44 ug/L is appropriate for Outfall 001. Consequently, we request that the VPDES permit for the Gordonsville Power Station be modified prior to January 30, 2011 (the compliance deadline for the existing limit of 5.8 ug/L) to incorporate an effluent limitation based on these results.

In addition to the above, Dominion has improved the oily wastewater collection system at the Gordonsville Power Station. Notification of these planned changes was submitted to DEQ by letter dated November 4, 2009. These changes were also discussed with you and Mr. Bryant Thomas during a March 23, 2010 meeting with Ken Roller of my staff. Included with this transmittal are a narrative description of the modifications that have been made to the oily wastewater system, related engineering documents, and a revised station water balance. We request that the permit be modified to reflect these changes when it is modified to incorporate the new copper limitation on Outfall 001.

The application fee of $5,150 for modification of the permit has been submitted to the Treasurer of Virginia. A copy of the check and transmittal letter are included with this transmittal.

Should you have any questions or concerns about this submittal please contact Ken Roller at (804) 273-3494.

Sincerely,

Cathy C. Taylor,
Director, Electric Environmental Services

cc (with attachments):

Mr. Alex M. Barron
Virginia Department of Environmental Quality
Division of Water Quality
629 East Main Street
Richmond, Virginia 23219

Mr. Roger E. Stewart II
Virginia Department of Environmental Quality
Division of Water Quality
629 East Main Street
Richmond, Virginia 23219

Gordonsville Power Station
Oily Wastewater System Upgrade Project

During September 2009 Dominion observed free product in a monitoring well located near the Gordonsville Power Station's underground Oily Water Separator (OWS). Damage to the piping leading to the OWS was subsequently discovered. In response, Dominion took immediate action to prevent additional release of product to the environment, and put in place appropriate temporary measures to ensure that the station's oily wastewaters received appropriate treatment while the underground OWS and piping were excavated and the surrounding soils remediated. In addition, the station developed, and has implemented, a long-term solution to convert the underground oily wastewater system to an above ground system. Notification of this planned change was submitted to DEQ by letter dated November 4, 2009. A description of the new system is provided below. The following information is also provided as attachments to this document:

- General Location Plan: Dominion Gordonsville Power Station Oil/Water Separator System Replacement
- A table describing pump installation design information
- P&ID for Unit 1 OWS System
- P&ID for Unit 2 OWS System
- Revised Gordonsville Power Station Water Flow Diagram

The new oily wastewater treatment system has two above ground oily water separators, one for each generating unit. The OWS for Unit 1 (OWS-1) is a slant rib coalescing separator rated at 150 gpm and will remove oil droplets down to 20 microns (10 mg/L). The OWS for Unit 2 (OWS -2) is the original underground separator that has been refurbished. OWS-2 is a parallel plate separator rated at 100 gpm and will remove oil droplets to 60 microns (15 mg/L). Oily wastewaters that contribute to OWS-1 and OWS-2 from generating units 1 and 2 are described in the table below. The two separators receive identical wastewaters from each generating unit. OWS-1 (with the higher flow capabilities) also receives storm water from the fuel unloading area, the diesel fuel oil tank containment, fire pump leakage and a small wastewater stream from the silica analyzer. Both separators came on-line as of April 2010.

In addition to installation of the two above-ground oil water separators the station has replaced their underground oily water piping system with an above-ground system that will facilitate inspection and maintenance. Positive displacement diaphragm pumps have been used in a major portion of the system, which should reduce the formation of emulsions and improve oil/water separation.

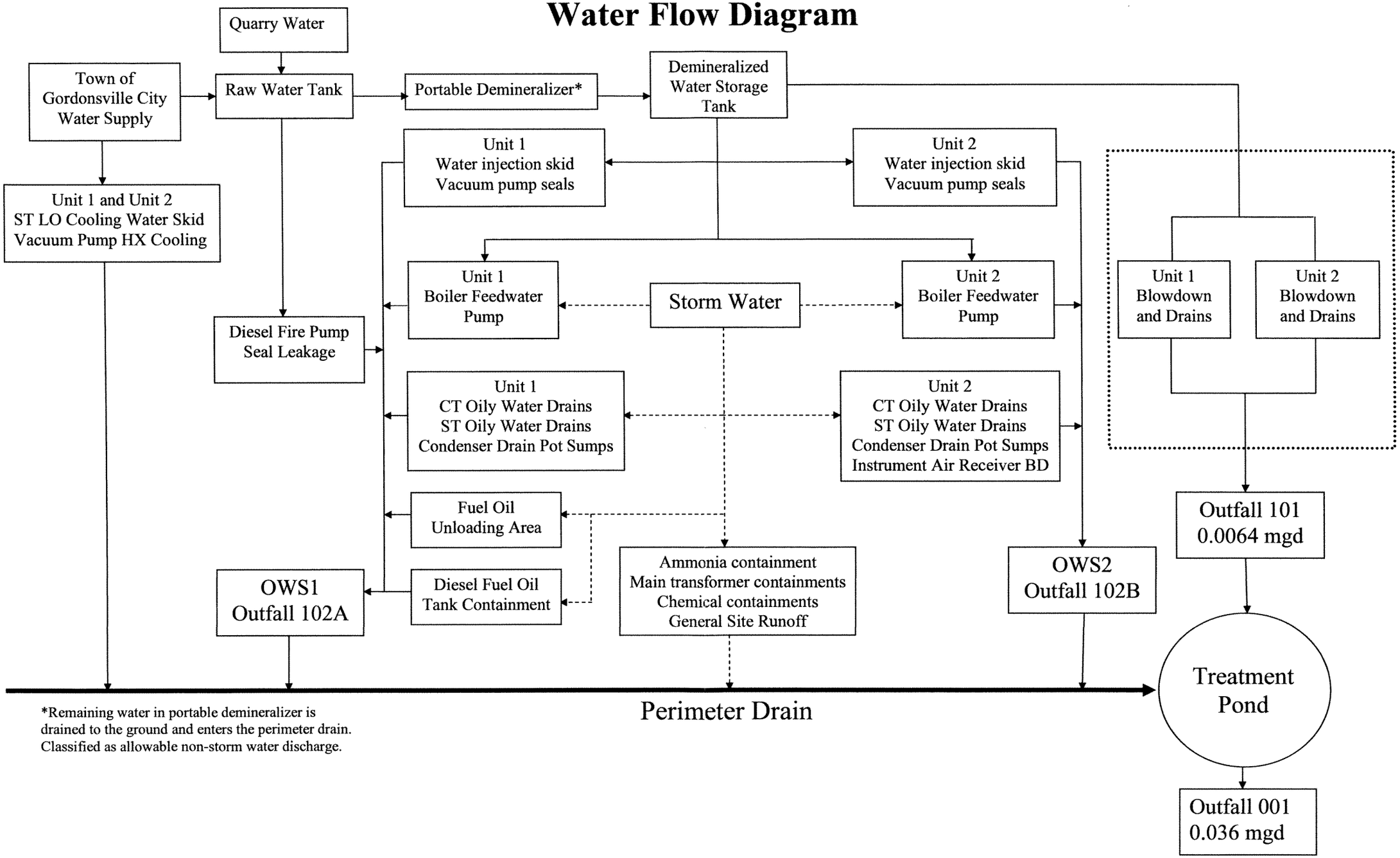
Both OWS-1 and OWS-2 discharge to the station's concrete perimeter ditch, which also receives storm water runoff from the majority of the Gordonsville Power Station. The current VPDES permit for the Gordonsville Power Station contains effluent limits for Oil & Grease and TSS on Outfall 102 (the discharge from the original oil water separator) that are based on the Steam Electric Effluent Guidelines (40 CFR Part 423). Dominion does not object to application of these limits to the discharges from the oil water separators; however, we believe it would be inappropriate to apply these limits to the perimeter ditch downstream from the two separators because of the substantial volume of surface runoff that also contributes to the perimeter ditch. With only a few exceptions the wastewaters treated by OWS-1 and OWS-2 are identical;

consequently, we have represented the discharges from the two separators as Outfalls 102A and 102B on the Water Flow Diagram. Dominion's preference would be to continue to treat the two separators as a single internal discharge (Outfall 102) and to alternate the monthly compliance sampling requirements between the two separators. To support this position, in May we will begin monthly sampling of each separator for DMR parameters. These data will be provided to DEQ with the DMRs.

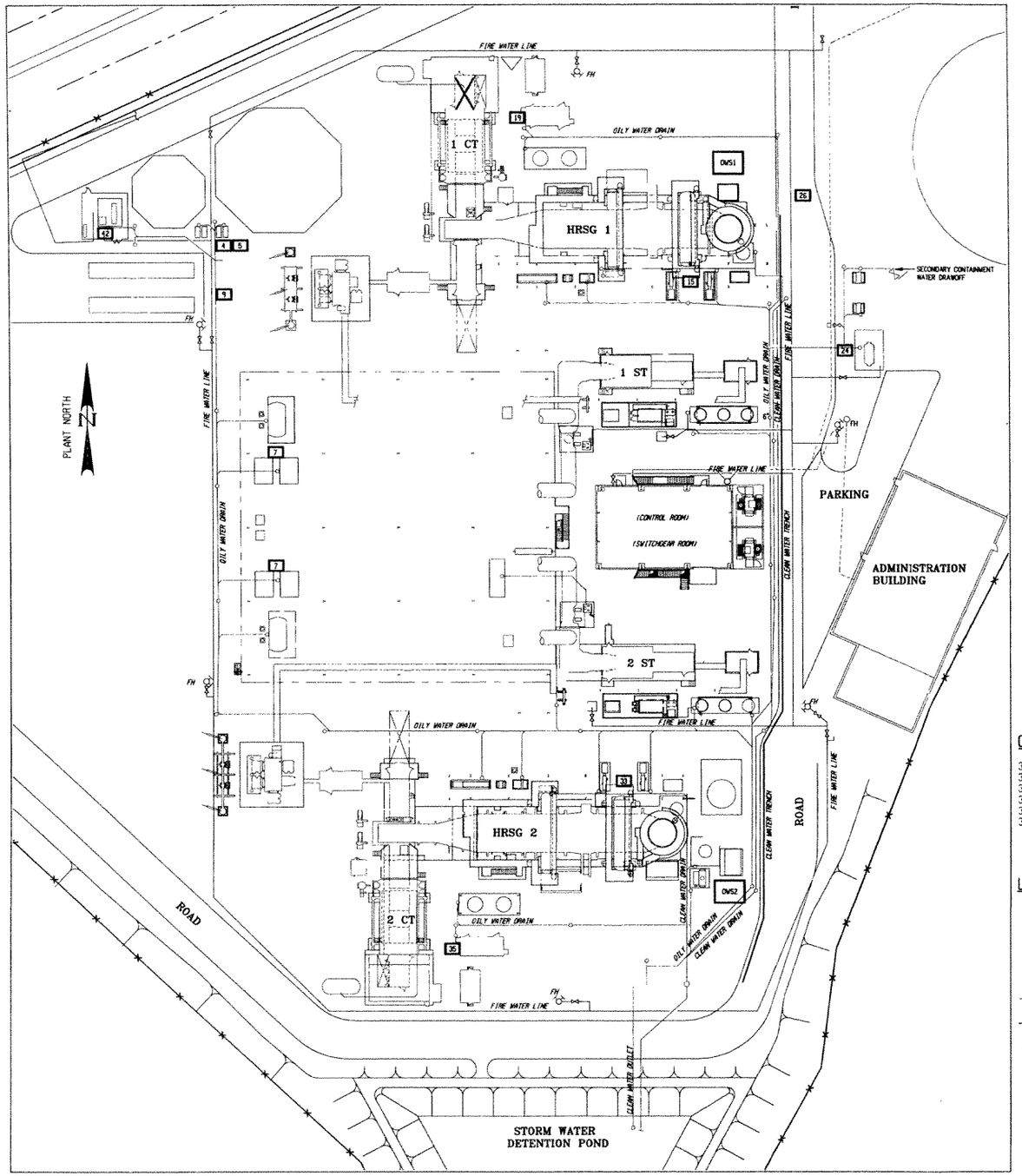
Oil/Water Separator	**Wastewater Sources**
OWS 1	• Unit 1 condensate drain pot sump* • Diesel fuel oil tank (containment) • Fuel unloading area runoff • Unit 1 steam turbine oily water drains • Unit 1 combustion turbine oily water drains • Silica analyzer drains (analyzes demin water) • Water injection skid • Vacuum pump seals • Boiler feed pumps • False start drains • Diesel fire pump seal leakage and drains.
OWS 2	• Unit 2 condensate drain pot sump (includes Instrument Air Receiver Blowdown)* • Unit 2 steam turbine oily water drains • Unit 2 combustion turbine oily water drains • Water injection skid drain • Vacuum pump seals • Boiler feed pumps • False start drains

*Designated as wastewater (WW) sump on drawings.

Gordonsville Power Station
Water Flow Diagram



*Remaining water in portable demineralizer is drained to the ground and enters the perimeter drain. Classified as allowable non-storm water discharge.



NOTE:

DUE TO THE CONSTRUCTION DEPTH CONSTRAINTS ALL STRUCTURES AND SUPPORTS ARE SUBJECT TO FROST MOVEMENT

ISSUED FOR CONSTRUCTION
BY J. FEDERSPIEL
DATE 11/30/09
ITAC ENGINEERS AND CONSTRUCTORS

COMPANION DRAWINGS:

30285-C-002	SUMP DETAILS
30285-C-003	OWS1 SUPPORT PAD
30285-C-004	OWS2 SUPPORT PAD
30285-C-005	SLAB & SUMP @ VACUUM PUMPS
30285-C-006	RAIN SHED @ DEMIN/RAW WATER PUMPS
30285-C-007	MISCELLANEOUS DETAILS

LEGEND:

XX	NEW ITEM (SEE DWG. 30285-C-002 THRU 30285-C-007 FOR DETAILS)
OWSx	NEW OIL WATER SEPARATOR PAD (SEE DWG. 30285-C-003 & C-004 FOR DETAILS)
DRAIN	*EXISTING FEATURES*
SUMP	NEW FEATURES

NOTES:

1. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, ETC. BEFORE PROCEEDING WITH ANY WORK.
2. THE CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING STRUCTURES, SINCE THE "AS BUILT" STRUCTURE MAY DIFFER SLIGHTLY FROM THE ORIGINAL REFERENCE DRAWINGS. DURING THE PROCESS OF CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF EXISTING STRUCTURES AND PREVENTING DAMAGE TO THEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS.
3. ALTERATIONS TO ANY DETAILS SHOWN ON THESE DRAWINGS WILL NOT BE PERMITTED UNLESS APPROVED BY DOMINION FOSSIL AND HYDRO ENGINEERING PRIOR TO MAKING ALTERATIONS.

STRUCTURAL NOTES:

1. PRIOR TO PERFORMING ANY STRUCTURAL WORK, A CUTTING AND FLAME PERMIT SHALL BE OBTAINED FROM THE OWNER.
2. MATERIALS:
   - STRUCTURAL STEEL:
     - STRUCTURAL W-SHAPES SHALL CONFORM TO ASTM A992 (Fy=50 KSI)
     - HOLLOW STRUCTURAL SHAPES SHALL CONFORM TO ASTM A500, GRADE B (Fy=46 KSI)
     - ALL OTHER SHAPES SHALL CONFORM TO ASTM A36
     - PLATES SHALL CONFORM TO ASTM A36
   - BOLTS:
     - BOLTS SHALL BE TYPE I CONFORMING TO ASTM A325
   - WELDING ELECTRODES:
     - ELECTRODES SHALL BE E70XX
   - GRATING:
     - GRATING SHALL CONFORM TO NAAMM W-19-4 (I 1/4" x 3/16", GALVANIZED)
   - CHECKERED FLOOR PLATE:
     - FLOOR PLATE SHALL CONFORM TO ASTM A786, GALVANIZED)
3. ALL STRUCTURAL STEEL ITEMS SHALL BE SHOP FABRICATED AND ASSEMBLED IN THE SHOP AS MUCH AS PRACTICAL. FLAME CUTTING OF HOLES IS NOT PERMITTED.
4. ALL CONNECTIONS SHALL BE WELDED OR HIGH STRENGTH BOLTED BEARING TYPE CONNECTIONS. BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF TWO 3/4" DIAMETER HIGH STRENGTH BOLTS EXCEPT WHERE NOTED. THE TYPICAL BEAM CONNECTION SHALL BE DOUBLE CLIP ANGLES AS DETAILED IN TABLES 10-1, 10-2, & 10-3 OF THE STEEL CONSTRUCTION MANUAL, 13th EDITION.
5. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO:
   - A. CHAPTER M OF THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", MARCH 9, 2005 EXCEPT SECTION M3.1 SHALL BE DELETED.
   - B. THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", MARCH 10, 2005, EXCEPT SECTIONS 7.2 THROUGH 7.6, 9 AND 10 SHALL BE DELETED.
6. SURFACE PREPARATION FOR HANDRAIL AND STRUCTURAL STEEL SHALL BE DONE ACCRDING TO THE STEEL STRUCTURES PAINTING COUNCIL'S (SSPC) SURFACE PREPARATION SPECIFICATIONS LATEST REVISIONS.
   - COATING SYSTEM
   - -PRIMER COAT: SHERWIN WILLIAMS RECOATABLE EPOXY PRIMER (B67) @ 4.0-6.0 MILS DFT.
   - -TOP COAT: SHERWIN WILLIAMS HI SOLIDS POLYURETHANE (B65-300) @ 3.0-4.0 MILS DFT. COLOR TO BE SPECIFIED BY DOMINION.
   - -EQUAL PRODUCTS BY OTHER MANUFACTURERS MAY BE SUBSTITUTED ONLY WITH PRIOR APPROVAL FROM DOMINION.
   - -EACH COATING IN THE CURED STATE SHALL NOT EQUAL TO OR EXCEED THE HAZARDOUS LIMITS (METALS ONLY) AS DETERMINED BY THE TOXICITY CHARACTERISTICS PROCEDURE (TCLP) PER 40 CFR 261.24 APP. II. ADDITIONALLY, COATINGS SHALL CONTAIN LESS THAN 0.06% BY WEIGHT LEAD OR CHROMIUM IN THE DRIED FILM.
   - -ALL WORK SHALL BE DONE IN A WORKMANLIKE MANNER, SO THAT THE FINISH SURFACES WILL BE HOLIDAY FREE WITH LIMITED RUNS, DRIPS, AND SAGS. ALL COATINGS SHALL BE APPLIED IN SUCH A MANNER TO PRODUCE AN EVEN FILM OF UNIFORM THICKNESS COMPLETELY COATING ALL CORNERS AND CREVICES.
7. CONTRACTOR TO SHORE EXISTING AND/OR AFFECTED STRUCTURES TO ENSURE STABILITY DURING CONSTRUCTION.
8. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
9. CONCRETE SHALL BE AIR-ENTRAINED 6% BY VOLUME.
10. REINFORCING BARS SHALL BE GRADE 60 CONFORMING TO THE REQUIREMENTS OF ASTM A-615.
11. EXPANSION JOINT MATERIAL SHALL BE "SEALTIGHT" ASPHALT EXPANSION JOINT FILLER AS MANUFACTURED BY W.R. MEADOWS, INC., ELGIN, ILL., OR APPROVED EQUAL.
12. JOINT SEALANT SHALL BE "DECK-O-SEAL 150" BY W.R. MEADOWS, INC., ELGIN, ILL., OR APPROVED EQUAL.
13. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" x 3/4" CHAMFER.
14. CONCRETE SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH IBC 2006 TABLE 1704.4.
15. WELDED WIRE REINFORCING SHALL BE IN SHEETS, NOT ROLLED AND SHALL BE SUPPORTED ON CHAIRS PRIOR TO POURING CONCRETE.
16. GROUT SHALL BE "5 STAR BRAND" EPOXY GROUT BY FIVE STAR PRODUCTS, INC., OR APPROVED EQUAL.

REV.	REVISIONS	DATE	BY	CKD	APP'D
0	ISSUED FOR CONSTRUCTION	11/30/09	JDH	JJF	ADW
B	ISSUED FOR APPROVAL	11/20/09	JDH	JJF	
A	ISSUED FOR APPROVAL	11/18/09	JDH	JJF	

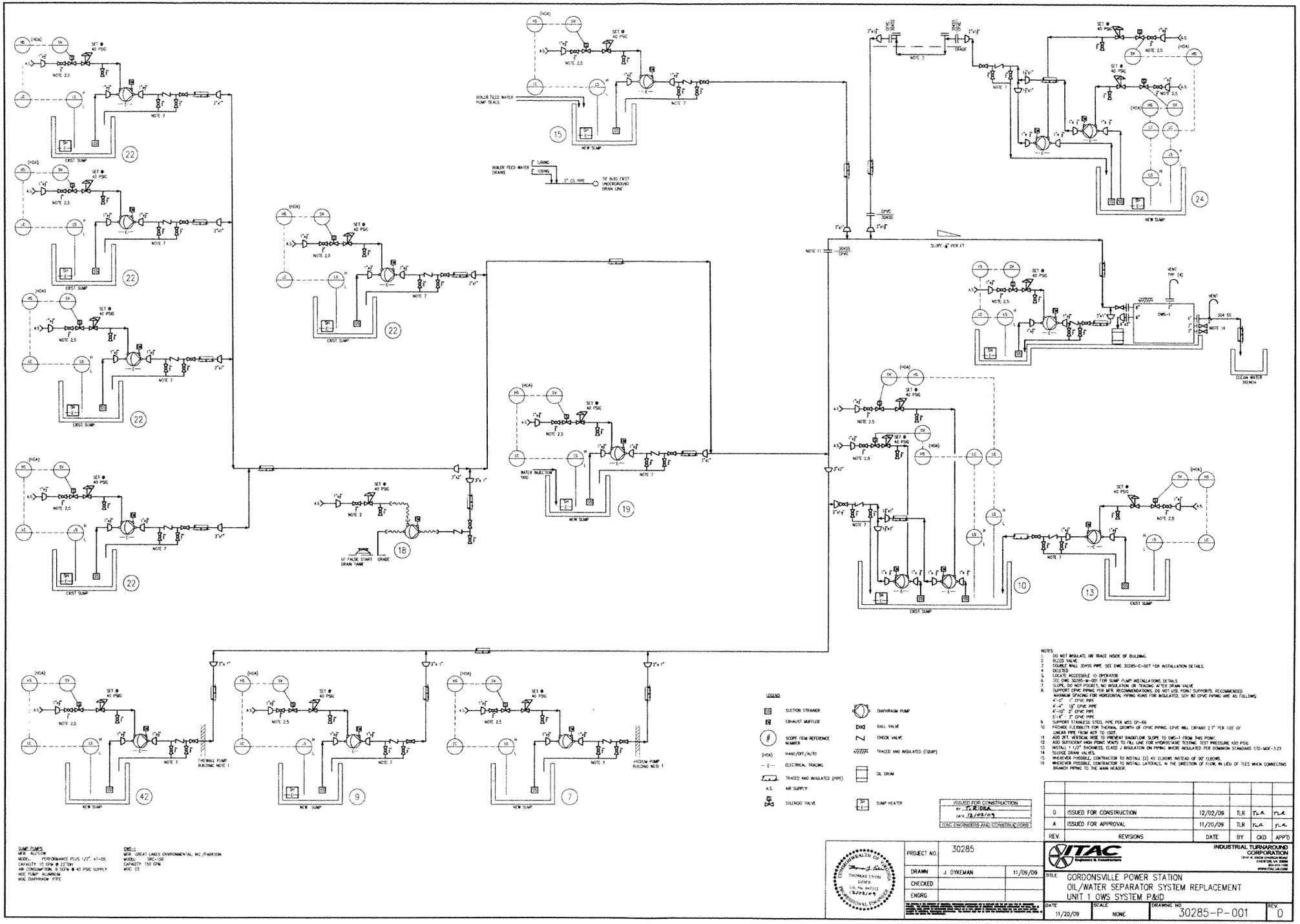
COMMONWEALTH OF VIRGINIA
JEROME J. FEDERSPIEL
Lic. No. 036281
PROFESSIONAL ENGINEER
11/30/09

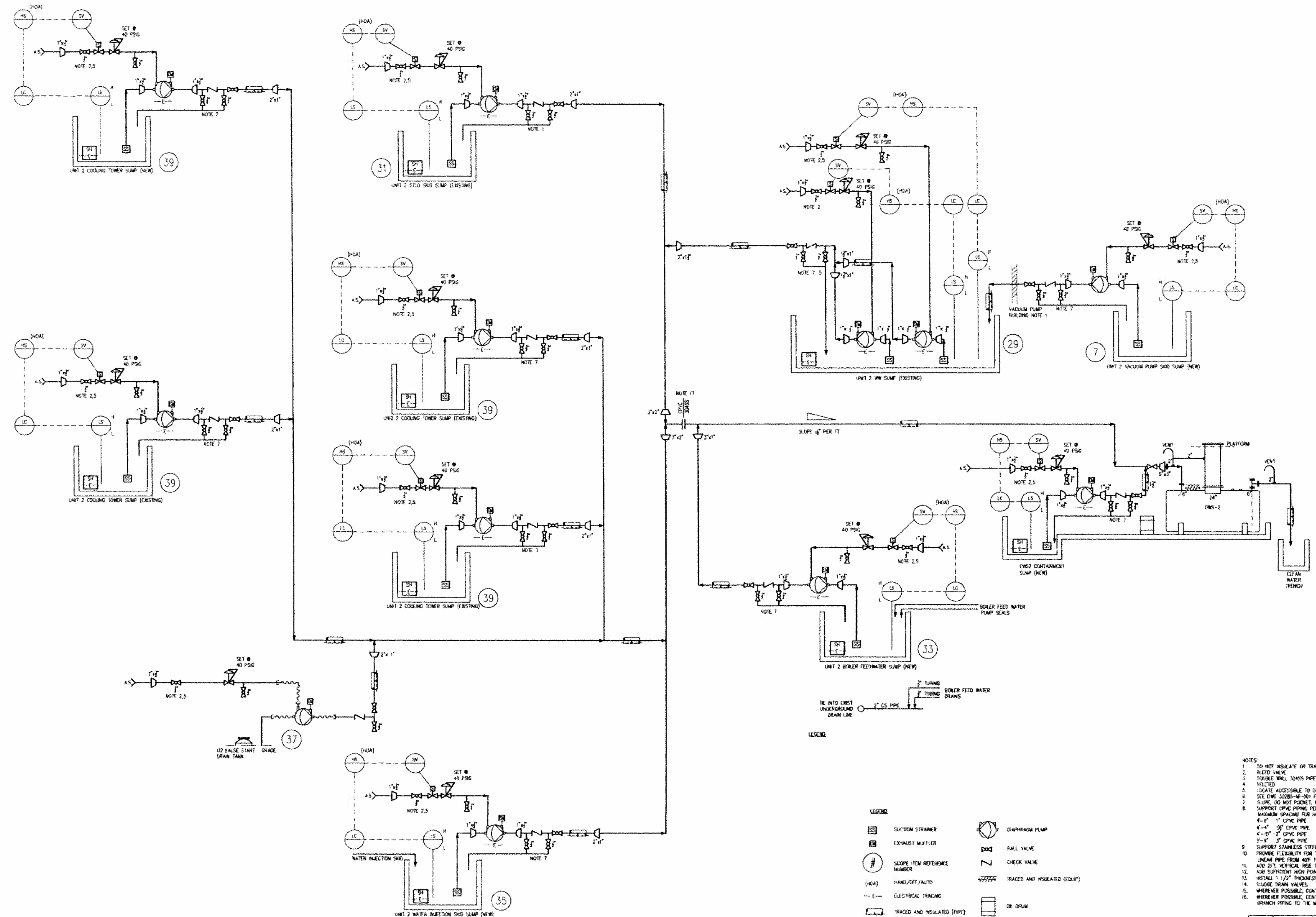
PROJECT NO.	30285	
DRAWN	JDH	11/17/09
CHECKED	JJF	11/30/09
ENGRG	JJF	11/30/09

ITAC Engineers & Constructors
INDUSTRIAL TURNAROUND CORPORATION
12141 N. EXON CHURCH ROAD
CHESTER, VA 23836
804-414-1100
WWW.ITAC.US.COM

TITLE: DOMINION GORDONSVILLE POWER STATION
OIL/WATER SEPARATOR SYSTEM REPLACEMENT
GENERAL LOCATION PLAN

DATE	SCALE	DRAWING NO	REV.
11/17/09	NTS	30285-C-001	0


NOTES:
1. DO NOT INSULATE OR TRACE INSIDE OF BUILDING.
2. BLEED VALVE.
3. DOUBLE WALL 304SS PIPE. SEE DWG 30285-C-007 FOR INSTALLATION DETAILS.
4. DELETED
5. LOCATE ACCESSIBLE TO OPERATOR
6. SEE DWG 30285-M-001 FOR SUMP PUMP INSTALLATIONS DETAILS
7. SLOPE, DO NOT PUDDLE, NO INSULATION OR TRACING AFTER DRAIN VALVE
8. SUPPORT CPVC PIPING PER MFR. RECOMMENDATIONS. DO NOT USE POINT SUPPORTS. RECOMMENDED MAXIMUM SPACING FOR HORIZONTAL PIPING RUNS FOR INSULATED, SCH 80 CPVC PIPING ARE AS FOLLOWS:
4'-0" 1" CPVC PIPE
4'-4" 1.5" CPVC PIPE
4'-10" 2" CPVC PIPE
5'-6" 3" CPVC PIPE
9. SUPPORT STAINLESS STEEL PIPE PER MSS SP-69
10. PROVIDE FLEXIBILITY FOR THERMAL GROWTH OF CPVC PIPING. CPVC WILL EXPAND 2.7" PER 100' OF LINEAR PIPE FROM 40°F TO 150°F.
11. ADD 3FT. VERTICAL RISE TO PREVENT BACKFLOW. SLOPE TO OWS-1 FROM THIS POINT.
12. ADD SUFFICIENT HIGH POINT VENTS TO FILL LINE FOR HYDROSTATIC TESTING. TEST PRESSURE 100 PSIG.
13. INSTALL 1 1/2" THICKNESS, CLASS J INSULATION ON PIPING WHERE INSULATED PER DOMINION STANDARD 510-MGF-3.27
14. SLUDGE DRAIN VALVES.
15. WHEREVER POSSIBLE, CONTRACTOR TO INSTALL (2) 45° ELBOWS INSTEAD OF 90° ELBOWS.
16. WHEREVER POSSIBLE, CONTRACTOR TO INSTALL LATERALS, IN THE DIRECTION OF FLOW, IN LIEU OF TEES WHEN CONNECTING BRANCH PIPING TO THE MAIN HEADER.
LEGEND
SUCTION STRAINER
EXHAUST MUFFLER
SCOPE ITEM REFERENCE NUMBER
(HOA) HAND/OFF/AUTO
ELECTRICAL TRACING
TRACED AND INSULATED (PIPE)
A.S. AIR SUPPLY
SOLENOID VALVE
DIAPHRAGM PUMP
BALL VALVE
CHECK VALVE
TRACED AND INSULATED (EQUIP)
OIL DRUM
SUMP HEATER
ISSUED FOR CONSTRUCTION
BY: J. RIDEA
DATE: 12/02/09
ITAC ENGINEERS AND CONSTRUCTORS
SUMP PUMPS
MFR: ALLFLOW
MODEL: PERFORMANCE PLUS 1/2", A1-05
CAPACITY: 10 GPM @ 25'TDH
AIR CONSUMPTION: 8 SCFM @ 40 PSIG SUPPLY
WOC PUMP: ALUMINUM
WOC DIAPHRAGM: PTFE
OWS-1
MFR: GREAT LAKES ENVIRONMENTAL INC./PARKSON
MODEL: SPC-150
CAPACITY: 150 GPM
WOC: CS
0 ISSUED FOR CONSTRUCTION 12/02/09 TLR TLR TLR
A ISSUED FOR APPROVAL 11/20/09 TLR TLR TLR
REV. REVISIONS DATE BY CKD APP'D
PROJECT NO. 30285
DRAWN J. DYKEMAN 11/09/09
CHECKED
ENGRG
ITAC Engineers & Constructors
INDUSTRIAL TURNAROUND CORPORATION
TITLE: GORDONSVILLE POWER STATION
OIL/WATER SEPARATOR SYSTEM REPLACEMENT
UNIT 1 OWS SYSTEM P&ID
DATE 11/20/09
SCALE NONE
DRAWING NO. 30285-P-001
REV. 0



LEGEND

SUCTION STRAINER	DIAPHRAGM PUMP
EXHAUST MUFFLER	BALL VALVE
SCOPE ITEM REFERENCE NUMBER	CHECK VALVE
(HOA) HAND/OFF/AUTO	TRACED AND INSULATED (EQUIP)
ELECTRICAL TRACING	OIL DRUM
TRACED AND INSULATED (PIPE)	SUMP HEATER
A.S. AIR SUPPLY	
SOLENOID VALVE	

NOTES:
1. DO NOT INSULATE OR TRACE INSIDE OF BUILDING.
2. BLEED VALVE.
3. DOUBLE WALL 304SS PIPE. SEE DWG 30285-C-007 FOR INSTALLATION DETAILS.
4. DELETED
5. LOCATE ACCESSIBLE TO OPERATOR.
6. SEE DWG 30285-M-001 FOR SUMP PUMP INSTALLATIONS DETAILS.
7. SLOPE, DO NOT POCKET, NO INSULATION OR TRACING AFTER DRAIN VALVE.
8. SUPPORT CPVC PIPING PER MFR. RECOMMENDATIONS. DO NOT USE POINT SUPPORTS. RECOMMENDED MAXIMUM SPACING FOR HORIZONTAL PIPING RUNS FOR INSULATED, SCH 80 CPVC PIPING ARE AS FOLLOWS:
   4'-0" 1" CPVC PIPE
   4'-4" 1½" CPVC PIPE
   4'-10" 2" CPVC PIPE
   5'-9" 3" CPVC PIPE
9. SUPPORT STAINLESS STEEL PIPE PER MSS SP-69
10. PROVIDE FLEXIBILITY FOR THERMAL GROWTH OF CPVC PIPING. CPVC WILL EXPAND 2.7" PER 100' OF LINEAR PIPE FROM 40F TO 100F.
11. ADD 2FT. VERTICAL RISE TO PREVENT BACKFLOW. SLOPE TO OWS-1 FROM THIS POINT
12. ADD SUFFICIENT HIGH POINT VENTS TO FILL LINE FOR HYDROSTATIC TESTING. TEST PRESSURE 100 PSIG.
13. INSTALL 1 1/2" THICKNESS, CLASS 2 INSULATION ON PIPING WHERE INSULATED PER DOMINION STANDARD STD-MOF-3.27
14. SLUDGE DRAIN VALVES.
15. WHEREVER POSSIBLE, CONTRACTOR TO INSTALL (2) 45' ELBOWS INSTEAD OF 90' ELBOWS.
16. WHEREVER POSSIBLE, CONTRACTOR TO INSTALL LATERALS, IN THE DIRECTION OF FLOW, IN LIEU OF TEES WHEN CONNECTING BRANCH PIPING TO THE MAIN HEADER.

SUMP PUMPS
MFR: ALLFLOW
MODEL: PERFORMANCE PLUS 1/2", A1-05
CAPACITY: 10 GPM @ 23'TDH
AIR CONSUMPTION: 8 SCFM @ 40 PSIG SUPPLY
MOC PUMP: ALUMINUM
MOC DIAPHRAGM: PTFE

OWS-2
MFR: McTIGHE INDUSTRIES, INC.
MODEL: OWS-2000
CAPACITY: 100 GPM
MOC: CS

ISSUED FOR CONSTRUCTION
BY T.R.L.
DATE 12/02/09
ITAC ENGINEERS AND CONSTRUCTORS

REV.	REVISIONS	DATE	BY	CKD	APP'D
0	ISSUED FOR CONSTRUCTION	12/02/09	TLR	TLR	TLR
A	ISSUED FOR APPROVAL	11/20/09	TLR	TLR	TLR

COMMONWEALTH OF VIRGINIA
THOMAS LYON AIDCA
Lic. No. 045112
12/02/09
PROFESSIONAL ENGINEER

PROJECT NO.	30285	
DRAWN	J. DYKEMAN	11/09/09
CHECKED		
ENGRG		

[redacted]

ITAC Engineers & Constructors
INDUSTRIAL TURNAROUND CORPORATION

TITLE: GORDONSVILLE POWER STATION
OIL/WATER SEPARATOR SYSTEM REPLACEMENT
UNIT 2 OWS SYSTEM P&ID

DATE	SCALE	DRAWING NO.	REV.
11/20/09	NONE	30285-P-002	0

Pump Installation Design Information

Item	Description	Pump to OWS system #	Capacity (GPM)	Quantity	Manufacuter	Model	Air / Electric	Location: Indoor / Outdoor / Portable	Max. Op. Temp.	Connection Suction x Discharge	Branch Piping Size (gpm)	HS - Hand Switch LS - Level Switch	Sump Description	CSA other feature	Pump Traced (Yes/No)	Voltage	Wire Size	Number of Conductors	Panel No.	Circuit No.	Breaker Model No.	Comments
1	Oil / Water Separator	1	150	1	ALL-FLO	AT-05	Air	Indoor	Ambient	1/2" x 1/2"	1" ea.	HOA / Level Switch	New	New Pad, ramp for drumout	Yes	115	#12	3/C	HRSG 1	Ckt #11	1-Pole, 15A	Old OWS from Rosemary - Install on new above ground pad, discharge to existing trench
2	Oil / Water Separator	2	100	1	ALL-FLO	AT-05	Air	Indoor	Ambient	1/2" x 1/2"	1" ea.	HOA / Level Switch	New	New Pad, Access for manway at top.	Yes	115	#12	3/C	HRSG 2	Ckt #9	1-Pole, 15A	Existing underground OWS - Install on new pad. Discharge to existing trench. New Platform and Saddles.
3	Diesel Fire Pump cooling water discharge																					route piping to raw water tank inlet piping
4	Containment curb at demin / raw water pump pads												N/A	4" angle around pump baseplates, approx 10 linear feet each								4-inch angle around 4 pump baseplates approx 10 linear feet each. Relocate conduits.
5	Rain Shed at Demin / Raw Water Pmps												N/A									Relocate Conduits.
6	Pour Concrete in vacuum pump floots																					
7	Install sump pump with pump at U1 and U2 vac pump skids	1 2	10 / 10	2	ALL-FLO	AT-05	Air	Indoor	Ambient	1/2" x 1/2"	1" ea.	HOA / Level Switch	New	Leave access to vacuum pump ladder	No / No		#12	3/C	PDP-ACC	U1 Ckt #19, U2 Ckt #20	(2) New 1-Pole, 15A	Continuous Drain
8	Route piping to NE corner of Air-Cooled Condenser																					Along existing steel
9	Silica Analyzer discharge	1	10	1	ALL-FLO	AT-05	Air	Outdoor	Ambient	1/2" x 1/2"	1"	HOA / Level Switch	New		Yes	115	#12	3/C	Demin Load Ctr (Fire	Ckt #1	(1) New 1-Pole, 15A	Constant Trickle
10	Replace 2 existing U1 WW pumps with PD pumps	1	10 / 10	2	ALL-FLO	AT-05	Air	Outdoor	Ambient	1/2" x 1/2"	1 1/2"	Primary - Secondary / Level Switch / HOA	Existing		Yes	115	#12	3/C	PDP-2ACC	10a Ckt #11, 10b Ckt #12	(2) Exist. 1-Pole, 15A	
11	Route piping from U1 WW pumps to NE corner of ACC																					Existing Steel
12	Route piping from U1 STLO sump pump discharge to U1 WW sump																					Existing Steel
13	Replace existing sump pump at U1 STLO skid with PD pump	1	10	1	ALL-FLO	AT-05	Air	Outdoor	Ambient	1/2" x 1/2"	1"	HOA / Level Switch	Existing		Yes	115	#12	3/C	PDP-2ACC	Ckt #16	(1) Exist. 1-Pole, 15A	
14	Route piping from NE corner of ACC to OWS2																					Existing Pipe Rack
15	Install new sump pump and PD pump	1	10	1	ALL-FLO	AT-05	Air	Outdoor	212 deg. F	1/2" x 1/2"	1"	HOA / Level Switch	New		Yes	115	#12	3/C	PDP-HRSG1	Ckt #9	(1) Exist. 1-Pole, 15A	
16	Route existing drains from U1 BFP's to new sump																					
17	NOT USED																					
18	New PD pump at U1 False Start Drains Tank	1	10	1	ALL-FLO	AT-05	Air	Portable	Ambient	1/2" x 1/2"	1"	Manual	Existing		No	N/A						Use Hose instead of additional support.
19	Install sump and pump at west end of U1 Water Injection skid	1	10	1	ALL-FLO	AT-05	Air	Outdoor	Ambient	1/2" x 1/2"	1"	HOA / Level Switch	New		Yes	115	#12	3/C	CTG1	#8	1-Pole, 15A	
20	Route sump pump discharge from U1 W.I.S. to new piping run near duct burner skid																					existing piping plus 2 new supports w/ footings
21	Route piping from U1 false start drains tank to new sump at U1 water injection skid																					existing piping plus 1 new support w/ footing
22	Install 5 new PD pumps in existing sumps	1	10	5	ALL-FLO	AT-05	Air	Outdoor	Ambient	1/2" x 1/2"	1"	HOA / Level Switch	Exist		Yes	115	#12	3/C	27/MC2	Ckt # 9, 10, 11 ,12, 13	1-Pole, 15A	
23	route piping from new PD sump pumps to U1 water injection skid																					
24	Install new sump pump and PD pump at Fuel Oil Unloading area	1	10 / 10	2	ALL-FLO	AT-05	Air	Outdoor	Ambient	1/2" x 1/2"	1 1/2"	Primary - Secondary / Level Switch / HOA	New		Yes	115	#12	3/C	LP Fuel Oil (Foam House)	24a Ckt #24, 24b Ckt #26	(2) Exist. 1-Pole, 15A	2 FT x 2 FT x 3FT deep sump with curb and grating. CAP underground line running West. Tie in other existing underground lines to new sump.
25	Route pipe from new FO sump (item 24) to speed bump													Route along existing steel and curb								along existing steel and curb
26	Route pipe under road at speed bump																					Consider using existing pipe rack under road.
27	Route pipe along existing pipe rack																					existing pipe rack
28	Route pipe to OWS2																					existing pipe rack
29	Replace existing U2 WW pumps with PD pumps	2	10 / 10	2	ALL-FLO	AT-05	Air	Outdoor	Ambient	1/2" x 1/2"	1 1/2"	Primary - Secondary / Level Switch / HOA	Existing		Yes	115	#12	3/C	PDP-2ACC	29a Ckt #13, 29b Ckt #14	(2) Exist. 1-Pole, 15A	
30	Route pump discharge piping from U2 WW pumps to OWS 1																					existing pipe rack
31	Replace existing pmp with new PD pump at Unit 2 STLO skid	2	10	1	ALL-FLO	AT-05	Air	Outdoor	Ambient	1/2" x 1/2"	1"	HOA / Level Switch	Existing		Yes	115	#12	3/C	PDP-2ACC	Ckt #15	(1) Exist. 1-Pole, 15A	
32	Route discharge from U2 STLO skid to 2-inch piping																					existing pipe rack
33	Install new sump pump and PD pump at Unit 2 BFP-s	2	10	1	ALL-FLO	AT-05	Air	Outdoor	212 deg. F	1/2" x 1/2"	1"	HOA / Level Switch	New		Yes	115	#12	3/C	PDP2-HRSG2 Service	Ckt #8	(1) Exist. 1-Pole, 15A	
34	Route pump discharge from U2 BFP sump to new line going to OWS1																					existing pipe rack
35	Install new sump and pump at Unit 2 Water injection skid	2	10	1	ALL-FLO	AT-05	Air	Outdoor	Ambient	1/2" x 1/2"	1"	HOA / Level Switch	New		Yes	115	#12	3/C	27/MC2	Ckt #13	1-Pole, 15A	
36	Route piping from U2 WIS to OWS1										1"			Use existing rack with new supports w/ footings								existing pipe rack plus new supports with footings
37	Install new pump at Unit 2 underground False Start Drains Tank	2	10	1	ALL-FLO	AT-05	Air	Portable	Ambient	1/2" x 1/2"	1"	Manual	Existing		No	N/A						Use hose instead of additional support.
38	Route piping from U2 FSD tank to new sump at U2 WIS													Existing steel								existing steel plus 1 new support with footing
39	Install 4 new PD pumps at U2 CT	2	10	4	ALL-FLO	AT-05	Air	Outdoor	Ambient	1/2" x 1/2"	1"	HOA / Level Switch	1 New 3 Existing		Yes	115	#12	3/C	27/MC2	See Comments	(2) Exist. 1-Pole, 20A	East Ckt #16, West Ckt #18
40	Route discharge of 4 new PD pumps to new sump at U2 WIS													Existing steel								existing steel plus 1 new support with footing
41	Cap and groute all old system drain connections																					approximately 50 locations. Sizes from 3" to 6"
42	Install sump and pump at south end of diesel driven fire pump	1	10	1	ALL-FLO	AT-05	Air	Indoor	Ambient	1/2" x 1/2"	1"	HOA / Level Switch	New		No	115	#12	3/C	Demin Load Ctr (Fire	Ckt #2	(1) New 1-Pole, 15A	Trace outside piping only.
43	Route piping from new sump at diesel fire pump to silica analyzer													Existing pipe rack								existing pipe rack
44	TOTAL # of Pumps			29																		

PUBLIC NOTICE BILLING INFORMATION

I hereby authorize the Department of Environmental Quality to have the cost of publishing a public notice billed to the Agent/Department shown below. The public notice will be published once a week for two consecutive weeks in accordance with 9 VAC 25-31-290.C.2.

Agent/Department to be billed:	Ms. Cathy Taylor Director, Electric Environmental Services
Owner:	Virginia Electric and Power Company
Applicant's Address:	5000 Dominion Boulevard
	Glen Allen, VA 23060
Agent's Telephone Number:	(804) 273-2929
Authorizing Agent:	Cathy C Taylor *Signature*

VPDES Permit No.: VA0087033
Facility Name: Dominion - Gordonsville Power Station

Please return to:

Susan Mackert
VA-DEQ, NRO
13901 Crown Court
Woodbridge, VA 22193-1453
Fax: (703)583-3821